

"Express Mail" mailing label number EL 856 156 941 US. I hereby certify that this document and referenced attachments are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10, addressed to: Commissioner for Patents, Box Patent Application, Washington, D.C. 20231 on April 23, 2001.

JC929 U.S. PTO
09/840746
04/23/01

By: Nancy Ramos Printed: Nancy Ramos

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Huei-Mei Chen, Cynthia D. Honchell

Title: MUCIN-RELATED TUMOR MARKER

Serial No.: To Be Assigned

Filed: Herewith

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

Commissioner for Patents
Box Sequence
Washington, D.C. 20231

SUBMISSION UNDER 37 CFR §1.821- 1.825 SEQUENCE LISTING

Sir:

In accordance with the requirements of 37 CFR §1.821- 1.825, Applicants hereby submit one (1) diskette containing the computer-readable information for the "Sequence Listing" of the above-identified application. The diskette complies with the requirements of 37 CFR §1.824 and is IBM PC compatible using a UNIX operating system with PERL Program.

Accompanying the application is the paper copy of the Sequence Listing as disclosed in the application.

The content of the "Sequence Listing" paper copy is identical to the computer readable copy, as required under 37 CFR § 1.821(f).

Respectfully submitted,

INCYTE GENOMICS, INC.

Date: April 23, 2001

David G. Streeter
David G. Streeter, Ph.D.
Reg. No. 43,168
Direct Dial Telephone: (650) 845-5741

3160 Porter Drive
Palo Alto, California, 94304
Tel. No. 650-855-0555
Fax. No. 650-849-8886

09/840746-042301

PC-0039 US

<110> Chen, Huei-Mei
Honchell, Cynthia D.
Tang, Y. Tom

<120> Mucin-Related Tumor Marker

<130> PC-0039 US

<140> To Be Assigned

<141> Herewith

<160> 20

<170> PERL Program

<210> 1

<211> 946

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 182514CD1

<400> 1

Met	Ser	Gln	Thr	Glu	Thr	Val	Ser	Arg	Ser	Val	Ala	Pro	Met	Arg
1				5					10					15
Gly	Gly	Glu	Ile	Thr	Ala	His	Trp	Leu	Leu	Thr	Asn	Ser	Thr	Thr
				20					25					30
Ser	Ala	Asp	Val	Thr	Gly	Ser	Ser	Ala	Ser	Tyr	Pro	Glu	Gly	Val
				35					40					45
Asn	Ala	Ser	Val	Leu	Thr	Gln	Phe	Ser	Asp	Ser	Thr	Val	Gln	Ser
				50					55					60
Gly	Gly	Ser	His	Thr	Ala	Leu	Gly	Asp	Arg	Ser	Tyr	Ser	Glu	Ser
				65					70					75
Ser	Ser	Thr	Ser	Ser	Ser	Glu	Ser	Leu	Asn	Ser	Ser	Ala	Pro	Arg
				80					85					90
Gly	Glu	Arg	Ser	Ile	Ala	Gly	Ile	Ser	Tyr	Gly	Gln	Val	Arg	Gly
				95					100					105
Thr	Ala	Ile	Glu	Gln	Arg	Thr	Ser	Ser	Asp	His	Thr	Asp	His	Thr
				110					115					120
Tyr	Leu	Ser	Ser	Thr	Phe	Thr	Lys	Gly	Glu	Arg	Ala	Leu	Leu	Ser
				125					130					135
Ile	Thr	Asp	Asn	Ser	Ser	Ser	Ser	Asp	Ile	Val	Glu	Ser	Ser	Thr
				140					145					150
Ser	Tyr	Ile	Lys	Ile	Ser	Asn	Ser	Ser	His	Ser	Glu	Tyr	Ser	Ser
				155					160					165
Phe	Ser	His	Ala	Gln	Thr	Glu	Arg	Ser	Asn	Ile	Ser	Ser	Tyr	Asp
				170					175					180
Gly	Glu	Tyr	Ala	Gln	Pro	Ser	Thr	Glu	Ser	Pro	Val	Leu	His	Thr
				185					190					195
Ser	Asn	Leu	Pro	Ser	Tyr	Thr	Pro	Thr	Ile	Asn	Met	Pro	Asn	Thr
				200					205					210
Ser	Val	Val	Leu	Asp	Thr	Asp	Ala	Glu	Phe	Val	Ser	Asp	Ser	Ser
				215					220					225
Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Gly	Pro	Pro
				230					235					240
Leu	Pro	Leu	Pro	Ser	Val	Ser	Gln	Ser	His	His	Leu	Phe	Ser	Ser
				245					250					255
Ile	Leu	Pro	Ser	Thr	Arg	Ala	Ser	Val	His	Leu	Leu	Lys	Ser	Thr
				260					265					270

	725		730		735
Phe Arg Ala Gly	Ser Leu Cys Lys Arg	Lys Ser Pro Glu Cys	Asp		
	740		745		750
Lys Asp Thr Ser	Ile Cys Thr Asp Leu	Asp Gly Val Ala Leu	Cys		
	755		760		765
Gln Cys Lys Ser	Gly Tyr Phe Gln Phe	Asn Lys Met Asp His	Ser		
	770		775		780
Cys Arg Ala Cys	Glu Asp Gly Tyr Arg	Leu Glu Asn Glu Thr	Cys		
	785		790		795
Met Ser Cys Pro	Phe Gly Leu Gly Gly	Leu Asn Cys Gly Asn	Pro		
	800		805		810
Tyr Gln Leu Ile	Thr Val Val Ile Ala	Ala Ala Gly Gly Gly	Leu		
	815		820		825
Leu Leu Ile Leu	Gly Ile Ala Leu Ile	Val Thr Cys Cys Arg	Lys		
	830		835		840
Asn Lys Asn Asp	Ile Ser Lys Leu Ile	Phe Lys Ser Gly Asp	Phe		
	845		850		855
Gln Met Ser Pro	Tyr Ala Glu Tyr Pro	Lys Asn Pro Arg Ser	Gln		
	860		865		870
Glu Trp Gly Arg	Glu Ala Ile Glu Met	His Glu Asn Gly Ser	Thr		
	875		880		885
Lys Asn Leu Leu	Gln Met Thr Asp Val	Tyr Tyr Ser Pro Thr	Ser		
	890		895		900
Val Arg Asn Pro	Glu Leu Glu Arg Asn	Gly Leu Tyr Pro Ala	Tyr		
	905		910		915
Thr Gly Leu Pro	Gly Ser Arg His Ser	Cys Ile Phe Pro Gly	Gln		
	920		925		930
Tyr Asn Pro Ser	Phe Ile Ser Asp Glu	Ser Arg Arg Arg Asp	Tyr		
	935		940		945
Phe					

<210> 2
 <211> 6952
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 182514CB1

<400> 2
 gttc gatgaa agaattgccg cttttcaaac aaagagtgga acagcctcgg agatgggaac 60
 agagagggcg atggggctgt cagaagaatg gactgtgcac agccaagagg ccaccacttc 120
 ggcttgagc ccttcctttt ttctgtcttt ggagatggga gagctgacca cgccttctag 180
 gaagagaaat tcctcaggac cagatctctc ctgggtgcat ttctacagga cagcagcttc 240
 ctctcctctc ttagaccttt cctcaccttc tgaaagtaca gagaagctta acaactccac 300
 tggcctccag agctcctcag tcagtcaaac aaagacaatg catgttgcta ccgtgttcac 360
 tgatgggtggc ccgagaacgc tgcgatcttt gacggtcagt ctgggacctg tgagcaagac 420
 agaaggcttc cccaaggact ccagaattgc cagcacttca tcctcagtcc ttctttcacc 480
 ctctgcagtg gaatcgagaa gaaacagtag agtaactggg aatccagggg atgaggaatt 540
 cattgaacca tccacagaaa atgaatttgg acttacgtct ttgctgggca aaatgattcc 600
 ccaacctttg gagaacatca gcttgccagc agctctgagg tgcaaaatgg aagtcctatg 660
 tctcagactg agactgtgtc taggtcagtc gcacctatga gaggtggaga gatcactgca 720
 cactggctct tgaccaacag cacaacatct gcagatgtga caggaagctc tgcttcatat 780
 cctgaagggtg tgaatgcttc agtgttgacc cagttctcag actctactgt acagtctgga 840
 ggaagtcaca cagcattggg agataggagt tattcagagt cttcatctac atcttcctcg 900
 gaaagcttga attcatcagc accacgtgga gaacgttcaa tcgctgggat tagctacggg 960
 caagtgcgtg gcacagctat tgaacaaagg acttccagcg accacacaga ccacacctac
 1020
 ctgtcatcta ctttcaccaa aggagaacgg gcgttactgt ccattacaga taacagttca

1080
 tcctcagaca ttgtggagag ctcaacttct tatattaaaa tctcaaactc ttcacattca
 1140
 gagtattcct cctttttctca tgctcagact gagagaagta acatctcatc ctatgacggg
 1200
 gaatatgctc agcctttctac tgagtcgcca gttctgcata catccaacct tccgtcctac
 1260
 acaccaccca ttaatatgcc gaacacttcg gttgttctgg aactgatgc tgagtttgtt
 1320
 agtgactcct cctcctcctc ttctcctcctc tcctcttctt cttcttcagg gcctcctttg
 1380
 cctctgccct ctgtgtcaca atcccacat ttattttcat caattttacc atcaaccagg
 1440
 gcctctgtgc atctactaaa gtctacctct gatgcatcca caccatgggc ttcctcacca
 1500
 tcacctttac cagtatcctt aacgacatct acatctgccc cactttctgt ctcaaaaaca
 1560
 accttgccac agtcatcttc taccctgtc ctgcccaggg caagggagac tcctgtgact
 1620
 tcatttcaga catcaacaat gacatcattc atgacaatgc tccatagtag tcaaactgca
 1680
 gaccttaaga gccagagcac cccacaccaa gagaaagtca ttacagaatc aaagtcacca
 1740
 agcctgggtg ctctgcccac agagtccacc aaagctgtaa caacaaactc tcctttgcct
 1800
 ccctccttaa cagagtcctc cacagagcaa acccttccag ccacaagcac caacttagca
 1860
 caaatgtctc caactttcac aactaccatt ctgaagacct ctcagcctct tatgaccact
 1920
 cctggcacc tgtaagcac agcatctctg gtcactggcc ctatagccgt acagactaca
 1980
 gctggaaaac agctctcgct gacctcctc gaaatactag ttctcaaact ctcaacagaa
 2040
 ggtggcatca gcacagaaag gaaccgagtg attgtggatg ctaccactgg attgatccct
 2100
 ttgaccagtg taccacatc agcaaaaagaa atgaccacaa agcttggcgt tacagcagag
 2160
 tacagcccag cttcacgttc cctcggaaca tctccttctc cccaaaccac agttgtttcc
 2220
 acggctgaag acttggctcc caaatctgcc acctttgctg ttcagagcag cacacagtca
 2280
 ccaacaacac tgcctcttc agcctcagtc aacagctgtg ctgtgaaccc ttgtcttcac
 2340
 aatggcgaat gcgtcgaga caacaccagc cgtggctacc actgcaggtg cccgccttcc
 2400
 tggcaagggg atgattgcag tgtggatgtg aatgagtgcc tgtcgaaccc ctgcccaccc
 2460
 acagccacgt gcaacaatac tcagggatcc tttatctgca aatgcccggt tgggtaccag
 2520
 ttggaaaaag ggatatgcaa tttgggttaga accttcgtga cagagtttaa attaaagaga
 2580
 actttttctta atacaactgt ggaaaaacat tcagacctac aagaagttga aaatgagatc
 2640
 accaaaacgt taaatatgtg tttttcagcg ttacctagtt acatccgatc tacagttcac
 2700
 gcctctaggg agtccaacgc ggtggatgac tcaactgcaa caacctttc cctggcctcc
 2760
 aatgtgacgc tatttgacct ggctgatagg atgcagaaat gtgtcaactc ctgcaagtcc
 2820
 tctgctgagg tctgccagct cttgggatct cagaggcgga tcttttagagc gggcagcttg
 2880

tgcaagcggga agagtcccga atgtgacaaa gacacctcca tctgcaactga cctggacggc
 2940
 gttgccctgt gccagtgcaa gtcgggatac tttcagttca acaagatgga ccaactcctgc
 3000
 cgagcatgtg aagatggata taggcttgaa aatgaaacct gcatgagttg cccattttggc
 3060
 cttggtggtc tcaactgtgg aaacccctat cagcttatca ctgtggtgat cgcagccgcg
 3120
 ggaggtgggc tcctgctcat cctaggcata gcactgattg ttacctgttg cagaaagaat
 3180
 aaaaatgaca taagcaaact catcttcaaa agtggagatt tccaaatgtc cccatatgct
 3240
 gaatacccca aaaatcctcg ctacacaaga tggggccgag aagctattga aatgcatgag
 3300
 aatggaagta ccaaaaacct cctccagatg acggatgtgt actactcgcc tacaagtgtg
 3360
 aggaatccag aacttgaacg aaacggactc taccggcct acactggact gccaggatca
 3420
 cggcattctt gcattttccc cggacagtat aaccctgtt tcatcagtga tgaaagcaga
 3480
 agaagagact acttttaagt ccaggagaga gagggactca ttgctctgag ccagtcacct
 3540
 gggacctctg ctacagaggac cgcaccagga ggctgcgccc aggatttgtc gggagccacg
 3600
 ctgagtggca agcaggaaga gggacaggca tgcggggcgt gaccacagtg gaggagacag
 3660
 gtggatgtgg aaccacaggc tgetcattca gcaccttgt tgttactgtg aacgtgaatg
 3720
 tgggccagta tcaagagagt ctctctgagt gactgcacca tggcactggc accagggcga
 3780
 ctattagcca gggcagacca ctagacttca gtgcagggac ctgggtttcc cttcgtttgc
 3840
 acttttagtaa attgggtggg aggtttcctt ttggatctgt tttgagactg ttccagaaag
 3900
 aaggcttctt ttcccagac acttccatag gcagcaattt ggtgattcat ttgcagcaaa
 3960
 atactggctt gttaattatt ttctgcca gcgcctgctg gctaaacaac agatgaggat
 4020
 gagcgtacca ctgaagtctg aagatgtcgc cattgaacgg acagtgtttt catatgtttc
 4080
 taggttgtct tatgctacag tttccaagcc agccccaca gtgaggaaat gtgtgaggca
 4140
 ccgcacacaa ctgcaatgtg ttttttaagt caagggtgaca catgtattta agattttttt
 4200
 ttaaaatctc tttgcagtta aatctcactt tttcaaaca gcttgatca gggcaaaaca
 4260
 acttatattt ggtttttagct ggaggctcag caggcagatt gcaggcaggg gggcactttt
 4320
 catccatgag ggcccagcct ggggcctggg actctgatca ccattgtgga ggccagaggg
 4380
 agctgcgtat ggaggagaaa tgtcaaactg aacgcagggt tcaccactct aggaaagcag
 4440
 cttgttgagc ccctgcagct ggatgtggtt agagggatgg gctgaatagg caggtttagat
 4500
 ttctgcatac aacagtgcct tgggaagctg tgtggattcc tgaggaagaa caggagccg
 4560
 agatggagcc acacatgagt ttgctcacg gctactgcag cactttgtac ccagaatctc
 4620
 atgtccacaa accccatgta aactttcaac cactcaaagc tgtttattcg gctgaagaaa
 4680
 taactttttt ttctcaccca gtcatttgta cctcttcata tggctgtgtc gcacctoca

4740
 gaaacgtggt tatacttcca gtcagtgtgg gagaactgaa gacttccggt tgggtcgagga
 4800
 actgagggtt gaccttcggg aaggaagttc cactcatctt atttattatg cctgtgatgt
 4860
 gggctctgcc agggagacat ccagtactcg gtgtctttaa ttgccacctg gggaaactgtg
 4920
 ttatttggcc ttctttgggg catcctgggt ttggatgaag tgaggggaat acagaggtaa
 4980
 aagaattgtc tccaccctga agcggggagt cccgcttcac atttctggaa atggtgcagc
 5040
 cactggggac agttctgccc cgggcatggt tgtttcttca aggtcctcta aatataatcc
 5100
 ctattcttac ataatccttg gccctgatgg ttttaagcaa gaactcctgt gtcccatggt
 5160
 ctccaccact caccatcacc ctgctgtagc aagagtccta gtcaggggag gtgcatttta
 5220
 gtagttaaat tgcacttatc catgagataa ataaaaggag aactgttttt atcagtggag
 5280
 gctaacctaa aatttcaaag tgtcgccttt ttgaaatctt gggcctctct ctctgtagaa
 5340
 ccaatggccc tttgtggctc acggcctcgc acctaactgg agagtcttga gctcctgcag
 5400
 ctcacctgag cccacagact aggtctcttg gctccttccg cagcatgcct gtcaccccc
 5460
 agaaccgcga gctgtgggaa gagccatgta gggaggctat tcccaggcat acacttccac
 5520
 tgccttcagc tgacgtcaca gctgacaaat catctcctct atcggagcca gaagacttca
 5580
 gctccacaaa atgaagtgtt ctgtcctgaa aacattcttg ggaagaatcc caacatcgag
 5640
 aaaacggtgt cctgtgagtt ccaacaatgc ttcttgttca tgggtttctt ccgtatggag
 5700
 tggattaaga gtgttttatt ttgttgttct aactgagaaa aaaaggaggc acccacaagg
 5760
 ttgaggtcac acagtctcca cagtttccag gaggcgtttg ggggtgggga aggcacctcc
 5820
 agagcatgag gctctaaggg gacatgagta aagcatgtct gtgaccagc gaggaagggg
 5880
 gaggccagct gcactcctgc acgggggttc tagctgcaga aggggtccgc ctaggccgag
 5940
 gggaaacacc tgatagcaga agaggcctgg atgcacacct ggcacgccga ggctctccgc
 6000
 ccagacacag tgctccatgt cagcccctgc acctgggggtg tgtgattcac gtgcacagat
 6060
 gccacaatcc tgcaccaata tcccacagat gggggaaggt gagaggaagg ggcaagtgat
 6120
 gtgtaactgc tcaagagatg cttaaacctc catagagagg agccgggggc aggggcatct
 6180
 gtgtgtcccg tcacacactg cagcagggaa ggggtggctgg ctggctccct ggcatcagtg
 6240
 gtttggttta agctccagag ggtcttattg ccattgtctt ttctctgcc ccttgagcca
 6300
 gcctaaggcc ctggagtctg tttctttagg cggatgaact gacatgctcc taccatgacc
 6360
 aggctctggg caaggctcct cacagtatcc ttgagagggt ggcatggaag tgccatttcc
 6420
 tcaggtacag aaaccttcag agaggataaa tagcttgccc tgtagaagca ggactgaaac
 6480
 ccttgtccgc ctgactcccc cagctactct gccactgta gcccctgcc ttactgtcct
 6540

PC-0039 US

ggcacacccc tcaccatcct gtatacctta aatatcaaag agggcaagag agaaaagggt
6600
ttaaagataa gttatTTTTT taaggaacct taatattatt tttaagaagt aaccaaatta
6660
gtgacgtgaa atgcaaaaaa aaaaaaaaaa aatgctgact acccttttga aaatgtgctt
6720
tcagattgtt ttttatatgt aattcttaga cacttgatcat taagaaaata gtggctggct
6780
tgtgtcagc aagaagcaca ctggcacgtg gctttggtat aggaagtgga aggcaaggac
6840
ctgggtttct gacaagtgcc gtcagactta cccttccatc tggagagctg gtggctttgg
6900
tccctgggt agggccatgg gttccccact attactggga agctataggg tg
6952

<210> 3
<211> 830
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 56024557H1

<400> 3
gttcgatgaa agaattgccg cttttcaaac aaagagtgga acagcctcgg agatgggaac 60
agagagggcg atggggctgt cagaagaatg gactgtgcac agccaagagg ccaccacttc 120
ggcttgagc ctttcccttc ttctgtctt ggagatggga gagctgacca cgccttctag 180
gaagagaaat tcctcaggac cagatctctc ctggctgcat ttctacagga cagcagcttc 240
ctctctctc ttagaccttc cctcaccttc tgaaagtaca gagaagctta acaactccac 300
tggcctccag agctcctcag tcagtcaaac aaagacaatg catgttgcta cctgtttcac 360
tgatgggtggc ccgagaacgc tgcgatcttt gacggctcagt ctgggacctg tgagcaagac 420
agaaggcttc cccaaggact ccagaattgc cagcacttca tcctcagtc ttctttcacc 480
ctctgcagtg gaatcgagaa gaaacagtag agtaactggg aatccaggcg atgaaggaat 540
tcattgaacc atccacagaa aatgaatttg gacttacgtc ttttgcttg gcaaaatgat 600
tcccctaact tggagaacat cagcttgcca gcagctctga gtgtgcaaaa tgggaacgtc 660
cccatgtctc cagactgaga ctgtggtcta ggtccagtcg caccatgaa aggtggagaa 720
gaatccactg gccaccgggt cttgacaaag caacaaacat ctgcagattg tgaccgggaa 780
gctcggttca tttcctggag gtgtgatgct cagtgttggc cgttctcaga 830

<210> 4
<211> 910
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 56024633J1

<400> 4
caaggttggt tgtgagacag aaagtggggc agatgtagat gtcgttaagg atactggtaa 60
aggtgatggt gaggaagacc acggtgtgga tgcacagag gtagacttta gtagatgcac 120
agaggccctg gttgatggta aaattgatga aaataaatgg tgggattgtg acacagaggg 180
cagaggcaaa ggaggccctg aagaagaaga agaggaggag gaggaagagg aggaggagga 240
gtcactaaca aactcagcat cagtgtccag aacaaccgaa gtgttcggca tattaatggt 300
gggtgtgtag gacggaaggt tggatgtatg cagaactggc gactcagtag aaggctgagc 360
atattccccg tcataggatg agatgttact tctctcagtc tgagcatgag aaaaggagga 420
atactctgaa tgtgaagagt ttgagatttt aatataagaa gttgagctct ccacaatgtc 480
tgaggatgaa ctgttatctg taatggacag taacgcccgt tctcctttgg tgaaagtaga 540
tgacaggtag gtgtggtctg tgtggtcgct ggaagtcctt tgttcaatag ctgtgccacg 600
cacttgaccg tagctaattc cagcgattga acgttctcca cgtggtgctg atgaattcaa 660

PC-0039 US

```
gctttccgag gaagatgtcg atgaagacct ctgaataact cctatctccc aatgctgtgt 720
gacttcctcc agactgtaca gtagagtctg agaactgggt caaactgaa gcattcacac 780
cttcaggata atgaagcaga gttcctgtca catctgcaga tgttggtgctg tgggccaaga 840
gccgtgtgc agtggatccc tccacctct catgggtgcg aatgacctag acccagctcc 900
agtctgagac                                     910
```

<210> 5
<211> 643
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 71060123V1

```
<400> 5
agtatcctta acgacatcta catctgcccc actttctgtc tcacaaacaa ccttgccaca 60
gtcatcttct acccctgtcc tgcccagggc aaggagagact cctgtgactt catttcagac 120
atcaacaatg acatcattca tgacaatgct ccatagtagt caaactgcag accttaagag 180
ccagagcacc ccacaccaag agaaagtcac tacagaatca aagtcaccaa gcctgggtgtc 240
tctgcccaca gagtccacca aagctgtaac aacaaactct ccttgccctcc atccttaaca 300
gagtcctcca cagagcaaac ccttcagacc acaagcacca acttagcaca aatgtctcca 360
actttcacaa ctaccattct gaagacctct cagcctctta tgaccactcc tggcacccctg 420
tcaagcacag catctctggg cactggccct atagccgtac agactacagc tggaaaacag 480
ctctcgctga cccatcctga aatactagtt cctcaaactc caacagaagg tggcatcagc 540
acagaaagga accgagtgat tgtggatgct accactggat tgatcccttt gaccagtgtg 600
cccacatcag caaaagaaat gaccacaaag cttgggggta cag                                     643
```

<210> 6
<211> 554
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7437161H1

```
<400> 6
tgtaccacaca tcagcaaaaag aaatgaccac aaagcttggc gttacagcag agtacagccc 60
agcttcacgt tccctcggaa catctccttc tccccaaacc acagttgttt ccacggctga 120
agacttggct cccaaactctg ccacctttgc tgttcagagc agcacacagt caccaacaac 180
actgtcctct tcagcctcag tcaacagctg tgctgtgaac ccttgtcttc acaatggcga 240
atgcgtcgca gacaacacca gccgtggcta ccaactgcagg tgcccgcctt cctggcaagg 300
ggatgattgc agtgtggatg tgaatgagtg cctgtcgaa cctgcccac ccacagccac 360
gtgcaacaat actcagggat cctttatctg caaatgcccg gttgggtacc agttggaaaa 420
agggatatgc aatttggtta gaaccttcgt gacagagttt aaattaaaga gaacttttct 480
taatacaact gtggaaaaaac attcagacct acaagaagtt gaaaatgaga tcacaaaaac 540
gttaaatatg tggt                                     554
```

<210> 7
<211> 571
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 71247228V1

```
<400> 7
gatcaccaaa acgttaaata tgtgtttttc agcgttacct agttacatcc gatctacagt 60
tcacgcctct agggagtcca acgcggtggg gatctcactg caaacaacct ttccctggc 120
```


PC-0039 US

ctccaatgtg acgctatttg acctggctga taggatgcag aaatgtgtca actcctgcaa 180
ggtcctctgc tgaggtctgc cagctcttgg gatctcagag gcggatcttt agagcgggca 240
gcttgtgcaa gcggaagagt cccgaatgtg acaaagacac ctccatctgc actgacctgg 300
acggcggttg cctgtgccag tgcaagtcgg gatactttca gttcaacaag atggaccact 360
cctgccgagc atgtgaagat ggatataggc ttgaaaatga aacctgcatg agttgcccac 420
ttggccttgg tggctctcaac tgtggaaacc cctatcagct tatcactgtg gtgatcgag 480
ccgcgggagg tgggctcctg ctcatcctag gcacgcact gattgttacc tgttgagaa 540
agaataaaaa tgacataagc aaactcatct t 571

<210> 8

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6475676H1

<400> 8

tgaacttgc atgagttgtc cattcagcct tgggtggtctc aactgtggaa acccctatca 60
gcttatcact gtggtgatcg cagccgcggg aggtgggctc ctgctcatcc taggcactcg 120
actgattgtt acctgttgca gaaagaataa aaatgacata agcaaactca tcttcaaaaag 180
tggagatttc caaatgtccc cgtatgctga ataccccaaa aatcctcgct cacaagaatg 240
gggcccagaa gctattgaaa tgcagagaa tgggaagtacc aaaaacctcc tccagatgac 300
ggatgtgtac tactcgcta caagtgtgaa gaatccagaa cttgaacgaa acggactcta 360
cccgggctac actggactgc caggatcacg ggattcttgc attttccccg gacagtataa 420
accgtctttc atc 433

<210> 9

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7735769H1

<400> 9

gggcccagaa agctattgaa atgcatgaga atggaagtac caaaaacctc ctccagatga 60
cggatgtgta ctactcgctt acaagtgtaa ggaatccaga acttgaacga aacggactct 120
accggccta cactggactg ccaggatcac ggcattcttg cattttcccc ggacagtata 180
accgtcttt catcagtgat gaaagcagaa gaagagacta cttttaagtc caggagagag 240
agggactcat tgctctgagc cagtcacctg ggacctctgc tcagaggacc gcaccaggag 300
gctgcgcca ggatttgcg ggagccacgc tgagtggcaa gcaggaacga gggacaggca 360
tgcggggcgt gaccacagtg gaggagacag gtggatgtgg aaccacaggc tgctcattca 420
gcacctttgt tgttactgtg aacgtgaatg tgggccagta tcaagagagt ctctctgagt 480
gactgcacca tggcactggc accagggcga ctattagcca gggcagacca ctgactt 538

<210> 10

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7180688H1

<400> 10

ctagacttca gtgcaggacc tggttttccc ttcgtttgca ctttagtaaa ttgggtggga 60
ggtttccttt tggatctgtt ttgagactgt tccagaaaga aggcttcctt tcccagagaa 120
cttccatagg cagcaatttg gtgattcatt tgcagcaaaa tactggcttg ttaattattt 180

PC-0039 US

tectgcccag cgctgcgtg ctaaacaaca gatgaggatg agcgtaccac tgaagtctga 240
agatgtcgcc attgaacgga cagtgttttc atatgtttct aggttgtctt atgctacagt 300
ttccaagcca gccccacag tgaggaaatg tgtgaggcac cgcacacaac tgcaatgtgt 360
tttttaagtc aaggtgacac atgtatttaa gattttttt taaaatctct ttgcagttaa 420
atctcacttt ttcaaacaag cctggatcag ggcaaaacaa cttatatattg gtttttagctg 480
gaggctcagc aggcagattg caggcagggg ggcacttttc atccatgaga ggccagcctg 540
gggcctggga ctctgatcac cattgtg 567

<210> 11

<211> 600

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70650868V1

<400> 11

ctcacttcat ccaaaaccag gatgcccac agaaggccaa taaacacagt tccccaggtg 60
gcaattaaag acaccgagta ctggatgtct ccctggcagg acccacatca caggcataat 120
aaataagatg agtggaactt ccttcccga ggtcaaccct cagttcctcg accaaccgga 180
agtcttcagt tctcccacac tgactggaag tataaccacg tttctggagg gtgcgacaca 240
gccatatgaa gaggtacaaa tgactgggtg agaaaaaaa gttatttctt cagccgaata 300
aacagctttg agtggttgaa agtttacatg ggggttgtgg acatgagatt ctgggtacaa 360
agtgtgcag tagccggtga gcaaaactcat gtgtggctcc atctcggctc cctgttcttc 420
ctcaggaatc cacacagctt cccaaagcac tgttgatgca ggaaatctaa cctggctatt 480
cagcccatcc ctctaaccac atccagctgc aggggctcaa caagctgctt tcctagagtg 540
gtgaaacctg cgttcagttt gacattttct cctccataag caggttgctc tggcctccac 600

<210> 12

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2359874T6

<400> 12

gaagaaacaa ccatgcccgg ggcagaactg tccccagtg ctgcaccatt tccagaaatg 60
tgaagcggga ctccccgctt cagggtggag acaattcttt tacctctgta tccccctcac 120
ttcatccaaa accagatgc cccaaagaag gccataaac acagttcccc aggtggcaat 180
taaagacacc gagtactgga tgtctccctg gcaggaccca catcacaggc ataataaata 240
agatgagtgg aacttccttc ccgaagtcaa ccctcagttc ctcgaccaac cggaagtctt 300
cagttctccc acactgactg gaagtataac cacgtttctg gagggtgca cacagccata 360
tgaaggaatt c 371

<210> 13

<211> 399

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2359874R6

<400> 13

cttcatatgg ctgtgtcgca ccctccagaa acgtggttat acttccagtc agtgtgggag 60
aactgaagac ttccggttgg tcgaggaact gagggttgac cttcggaag gaagttccac 120
tcattctatt tattatgect gtgatgtggg tcttgccagg gagacatcca gtactcgggtg 180
tctttaattg ccacctgggg aactgtgttt attggccttc tttggggcat cctggttttg 240

PC-0039 US

gatgaagtga ggggaataca gaggtaaaag aattgtctcc accctgaagc ggggagtccc 300
gcttcacatt tctggaaatg gtgcagccac tggggacagt tctgccccgg gcatggttgt 360
ttcttcaagg tcctctaaat ataatcccta ttcttacat 399

<210> 14
<211> 595
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 70650365V1

<400> 14
tttggggcat cctgggttttg gatgaagtga ggggaataca gaggtaaaag aattgtctcc 60
accctgaagc ggggagtccc gcttcacatt tctggaaatg gtgcagccac tggggacagt 120
tctgccccgg gcatggttgt ttcttcaagg tcctctaaat ataatcccta ttcttacata 180
atcctgtggc ctgatggttt taagcaagaa ctctgtgtc ccatggtctc caccactcac 240
catcaccctg ctgtagcaag agtcctagtc aggggaggtg catttttagta gttaaattggc 300
acttatccat gagataaata aaaggagAAC tggttttatc agtggaggct aacctaaaat 360
ttcaaagtgt cgccttttgg aaatctgggg cctctctctc tgtagaacca atggcccttg 420
gtggctcacg gcctcgacc ctaactggag agttctgagc tctgagctc cactgagcc 480
cacagactag gcttcttggc tccttccgca gcaggctggg tcaccccaga acccgagct 540
gtgggaagag ccatgtaggg aggctaattc caggcataca cttccactgc cttca 595

<210> 15
<211> 549
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1241344R6

<220>
<221> unsure
<222> 442, 460, 515
<223> a, t, c, g, or other

<400> 15
acctaactgg agagtcttga gctcctgcag ctcacctgag cccacagact aggcttcttg 60
gctccttccg cagcatgcct gctcaccgcc agaaccgca gctgtgggaa gagccatgta 120
gggaggtat tcccaggcat acacttccac tgccttcagc tgacgtcaca gctgacaaat 180
catctcctct atcggagcca gaagacttca gctccacaaa atgaagtgtt ctgtcctgaa 240
aacattcttg ggaagaatcc caacatcgag aaaacggtgt cctgtgagtt ccaacaatgc 300
ttcttgttca tgggtttctt ccgtatggag tggattaaga gtgttttatt ttgttgttct 360
aactgagaaa aaaaggaggc acccacaagg ttgaggtcac acagtctcca cagtttccag 420
gaggcgtttg ggggtgggga angcacctcc agagcatgan ggctctaagg ggacatgagt 480
aaagcatgtc tgtgaccag tgaggaaagg gagangccag ctgcactcct gcaacggggg 540
ttctagct 549

<210> 16
<211> 272
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 008938H1

<220>

PC-0039 US

<221> unsure

<222> 75, 106, 112, 163, 167, 192, 252

<223> a, t, c, g, or other

<400> 16

```
ggagaggcca gctgcactcc tgcacgggggt tcctagctgc agaaggggtcc cgcctaggcc 60
gaggggaaac acctnatagc agaagaggcc tggatgcaca cctggnacgc cnaggctctc 120
cgcccagaca cagtgtctca tgtcaacccc tgcacctggg gtntgtgnatt cacgtgcaca 180
gatgccacaa tntctgcacca atatcccaca gatgggggaa ggtgagagga aggggcaagt 240
aatgtgtacc tntcaagag atgcttaaac ct 272
```

<210> 17

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2580841F6

<220>

<221> unsure

<222> 162, 251

<223> a, t, c, g, or other

<400> 17

```
ggtttaagct ccagagggtc ttattgccat tgtcttttcc tctgcccctt gagccagcct 60
aaggccctgg agtctgtttc tttaggcgga tgaactgaca tgctcctacc atgaccaggc 120
tctgggcaag gtccttcaca gtatccttga gaggtgggca tngaagtgcc catttctcag 180
gtacagaaac cttcagagag gataaatagc ttgccctgta gaagcaggac tgaaacctt 240
gtccgcctga ntccccagc tactctgccc actgtagccc cctgccttac tgtcctggca 300
caccctcac catcctgtat accttaaata tcaaagaggg caagagagaa agggcttta 360
agataagtta tttttttaag gaaccttaat attattttta agaagtaacc aaattagtga 420
cgtg 424
```

<210> 18

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70621193V1

<400> 18

```
cctgggtacac ccctcaccat cctgtatacc ttaaatatca aagagggcaa gagagaaagg 60
gctttaaaga taagttattt ttttaaggaa ccttaattatt atttttaaga agtaaccaaa 120
ttagtgacgt gaaatgcaaa aaaaaaaaaa aaaaatgtct gactaccctt ttggaaaagt 180
gtgcttccag attggctttt ttatagtgtg attctttaga cacttggtca ttaagaaaaa 240
tagtggcggg ctggtgcttc agcaagaagc acacgggcac ggtggcttgg gatataggag 300
gtggaaggca aggaccgggt gtttctggac aggtggcggc cagacttaca cttccatctg 360
gagagctggt ggcttttggt ccctgggtag ggccatgggt tccccactat tactgggaag 420
ctatagggtg 430
```

<210> 19

<211> 957

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

PC-0039 US

<223> Genbank ID No: g2853301

<400> 19

Ile	Thr	Ile	Thr	Glu	Thr	Thr	Ser	His	Ser	Thr	Pro	Ser	Tyr	Thr	
1				5					10					15	
Thr	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Pro	Ser	His	Ser	Thr	Pro	Ser	
				20					25					30	
Tyr	Thr	Thr	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Pro	Ser	His	Ser	Thr	
				35					40					45	
Pro	Ser	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	
				50					55					60	
Ser	Thr	Pro	Ser	Phe	Thr	Ser	Ser	Ile	Arg	Thr	Thr	Glu	Thr	Thr	
				65					70					75	
Ser	Tyr	Ser	Thr	Pro	Ser	Phe	Thr	Ser	Ser	Asn	Thr	Ile	Thr	Glu	
				80					85					90	
Thr	Thr	Ser	His	Ser	Thr	Pro	Ser	Tyr	Ile	Thr	Ser	Ile	Thr	Thr	
				95					100					105	
Thr	Glu	Thr	Pro	Ser	Ser	Ser	Thr	Pro	Ser	Phe	Ser	Ser	Ser	Ile	
				110					115					120	
Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	Ser	Thr	Pro	Gly	Phe	Thr	Ser	
				125					130					135	
Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	Ser	Thr	Pro	Ser	Phe	
				140					145					150	
Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	Asp	Thr	Pro	
				155					160					165	
Ser	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Ser	Glu	Thr	Pro	Ser	His	Ser	
				170					175					180	
Thr	Pro	Ser	Ser	Thr	Ser	Leu	Ile	Thr	Thr	Thr	Lys	Thr	Thr	Ser	
				185					190					195	
His	Ser	Thr	Pro	Ser	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	
				200					205					210	
Thr	Ser	His	Ser	Ala	Arg	Ser	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Thr	
				215					220					225	
Glu	Thr	Thr	Ser	His	Asn	Thr	Arg	Ser	Phe	Thr	Ser	Ser	Ile	Thr	
				230					235					240	
Thr	Thr	Glu	Thr	Asn	Ser	His	Ser	Thr	Thr	Ser	Phe	Thr	Ser	Ser	
				245					250					255	
Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	Ser	Thr	Pro	Ser	Phe	Ser	
				260					265					270	
Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Pro	Leu	His	Ser	Thr	Pro	Gly	
				275					280					285	
Leu	Pro	Ser	Trp	Val	Thr	Thr	Thr	Lys	Thr	Thr	Ser	His	Ile	Thr	
				290					295					300	
Pro	Gly	Leu	Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	
				305					310					315	
Ser	Thr	Pro	Gly	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	
				320					325					330	
Ser	Glu	Ser	Thr	Pro	Ser	Leu	Ser	Ser	Ser	Thr	Ile	Tyr	Ser	Thr	
				335					340					345	
Val	Ser	Thr	Ser	Thr	Thr	Ala	Ile	Thr	Ser	His	Phe	Thr	Thr	Ser	
				350					355					360	
Glu	Thr	Ala	Val	Thr	Pro	Thr	Pro	Val	Thr	Pro	Ser	Ser	Leu	Ser	
				365					370					375	
Thr	Asp	Ile	Pro	Thr	Thr	Ser	Leu	Arg	Thr	Leu	Thr	Pro	Ser	Ser	
				380					385					390	
Val	Gly	Thr	Ser	Thr	Ser	Leu	Thr	Thr	Thr	Thr	Asp	Phe	Pro	Ser	
				395					400					405	
Ile	Pro	Thr	Asp	Ile	Ser	Thr	Leu	Pro	Thr	Arg	Thr	His	Ile	Ile	
				410					415					420	
Ser	Ser	Ser	Pro	Ser	Ile	Gln	Ser	Thr	Glu	Thr	Ser	Ser	Leu	Val	
				425					430					435	

Gly Thr Thr Ser Pro Thr Met Ser Thr Val Arg Met Thr Leu Arg
 440 445 450
 Ile Thr Glu Asn Thr Pro Ile Ser Ser Phe Ser Thr Ser Ile Val
 455 460 465
 Val Ile Pro Glu Thr Pro Thr Gln Thr Pro Pro Val Leu Thr Ser
 470 475 480
 Ala Thr Gly Thr Gln Thr Ser Pro Ala Pro Thr Thr Val Thr Phe
 485 490 495
 Gly Ser Thr Asp Ser Ser Thr Ser Thr Leu His Thr Leu Thr Pro
 500 505 510
 Ser Thr Ala Leu Ser Thr Ile Val Ser Thr Ser Gln Val Pro Ile
 515 520 525
 Pro Ser Thr His Ser Ser Thr Leu Gln Thr Thr Pro Ser Thr Pro
 530 535 540
 Ser Leu Gln Thr Ser Leu Thr Ser Thr Ser Glu Phe Thr Thr Glu
 545 550 555
 Ser Phe Thr Arg Gly Ser Thr Ser Thr Asn Ala Ile Leu Thr Ser
 560 565 570
 Phe Ser Thr Ile Ile Trp Ser Ser Thr Pro Thr Ile Ile Met Ser
 575 580 585
 Ser Ser Pro Ser Ser Ala Ser Ile Thr Pro Val Phe Ser Thr Thr
 590 595 600
 Ile His Ser Val Pro Ser Ser Pro Tyr Ile Phe Ser Thr Glu Asn
 605 610 615
 Val Gly Ser Ala Ser Ile Thr Gly Phe Pro Ser Leu Ser Ser Ser
 620 625 630
 Ala Thr Thr Ser Thr Ser Ser Thr Ser Ser Ser Leu Thr Thr Ala
 635 640 645
 Leu Thr Glu Ile Thr Pro Phe Ser Tyr Ile Ser Leu Pro Ser Thr
 650 655 660
 Thr Pro Cys Pro Gly Thr Ile Thr Ile Thr Ile Val Pro Ala Ser
 665 670 675
 Pro Thr Asp Pro Cys Val Glu Met Asp Pro Ser Thr Glu Ala Thr
 680 685 690
 Ser Pro Pro Thr Thr Pro Leu Thr Val Phe Pro Phe Thr Thr Glu
 695 700 705
 Met Val Thr Cys Pro Thr Ser Ile Ser Ile Gln Thr Thr Leu Thr
 710 715 720
 Thr Tyr Met Asp Thr Ser Ser Met Met Pro Glu Ser Glu Ser Ser
 725 730 735
 Ile Ser Pro Asn Ala Ser Ser Ser Thr Gly Thr Gly Thr Val Pro
 740 745 750
 Thr Asn Thr Val Phe Thr Ser Thr Arg Leu Pro Thr Ser Glu Thr
 755 760 765
 Trp Leu Ser Asn Ser Ser Val Ile Pro Leu Pro Leu Pro Gly Val
 770 775 780
 Ser Thr Ile Pro Leu Thr Met Lys Pro Ser Ser Ser Leu Pro Thr
 785 790 795
 Ile Leu Arg Thr Ser Ser Lys Ser Thr His Pro Ser Pro Pro Thr
 800 805 810
 Thr Arg Thr Ser Glu Thr Pro Val Ala Thr Thr Gln Thr Pro Thr
 815 820 825
 Thr Leu Thr Ser Arg Arg Thr Thr Arg Ile Thr Ser Gln Met Thr
 830 835 840
 Thr Gln Ser Thr Leu Thr Thr Thr Ala Gly Thr Cys Asp Asn Gly
 845 850 855
 Gly Thr Trp Glu Gln Gly Gln Cys Ala Cys Leu Pro Gly Phe Ser
 860 865 870
 Gly Asp Arg Cys Gln Leu Gln Thr Arg Cys Gln Asn Gly Gly Gln
 875 880 885
 Trp Asp Gly Leu Lys Cys Gln Cys Pro Ser Thr Phe Tyr Gly Ser

PC-0039 US

	890		895		900
Ser Cys Glu Phe	Ala Val Glu Gln Val	Asp Leu Asp Ala Glu Asp			
	905		910		915
Phe Cys Arg His	Ala Gly Leu His Leu	Gln Gly Cys Gly Asp Pro			
	920		925		930
Val Pro Glu Glu Trp	Gln His Arg Gly	Gly Leu Pro Gly Pro Ala			
	935		940		945
Gly Asp Ala Leu	Gln Pro Pro Ala Gly	Glu Arg Val			
	950		955		

<210> 20

<211> 528

<212> PRT

<213> Sus scrofa

<220>

<221> misc_feature

<223> Genbank ID No: g915208

<400> 20

Pro Ile Ser Val Gln	Pro Ser Ser Ser	Ser Ser Ser Pro Thr Thr		
1	5	10		15
Ser Thr Thr Ser Val	Gln Ser Ser Ser	Ser Ser Ser Val Pro Ile		
	20	25		30
Pro Ser Thr Thr Ser	Val Gln Pro Ser	Ser Ser Gly Ser Ala Pro		
	35	40		45
Thr Thr Ser Ala Thr	Ser Val Gln Thr	Ser Ser Ser Ser Pro		
	50	55		60
Pro Ile Ser Ser Thr	Ile Ser Val Gln	Thr Ser Ser Ser Ser		
	65	70		75
Val Pro Thr Thr Ser	Thr Thr Ser Val	Gln Pro Ser Ser Ser		
	80	85		90
Ser Ala Pro Thr Thr	Arg Ala Thr Ser	Val Gln Ser Ser Ser		
	95	100		105
Ser Ser Ala Pro Ile	Ser Ser Thr Thr	Ser Val Gln Pro Ser Ser		
	110	115		120
Ser Gly Ser Val Pro	Thr Thr Ser Ala	Thr Ser Val Gln Ser Ser		
	125	130		135
Ser Ser Ser Ser Ala	Pro Thr Thr Ser	Ala Thr Ser Val Gln Pro		
	140	145		150
Ser Ser Ser Ser Ser	Pro Pro Ile Ser	Ser Thr Val Ser Val Gln		
	155	160		165
Pro Ser Ser Ser Ser	Ser Ala Pro Thr	Thr Ser Ala Thr Ser Val		
	170	175		180
Gln Pro Ser Ser Ser	Ser Ser Pro Pro	Ile Ser Ser Thr Val Ser		
	185	190		195
Val Gln Thr Ser Ser	Ser Ser Ser Val	Pro Thr Thr Ser Thr Thr		
	200	205		210
Ser Val Gln Pro Ser	Ser Ser Ser Ser	Val Pro Thr Thr Ser Ala		
	215	220		225
Thr Ser Val Arg Ser	Ser Ser Ser Ser	Ser Thr Pro Ile Pro Ser		
	230	235		240
Thr Thr Ser Val Gln	Pro Ser Ser Ser	Ser Ser Ala Pro Thr Thr		
	245	250		255
Ser Ala Thr Ser Val	Gln Pro Ser Ser	Ser Ser Ser Thr Pro Ile		
	260	265		270
Pro Ser Thr Thr Ser	Val Gln Pro Ser	Ser Ser Ser Ser Ala Pro		
	275	280		285
Thr Thr Ser Ala Thr	Ser Val Gln Pro	Ser Ser Ser Ser Ser Pro		
	290	295		300
Pro Ile Ser Ser Thr	Ile Ser Val Gln	Pro Ser Ser Ser Ser Ser		

PC-0039 US

				305					310					315
Ser	Pro	Thr	Thr	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Gly
				320					325					330
Ser	Ala	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser
				335					340					345
Ser	Ser	Pro	Pro	Ile	Ser	Ser	Thr	Ile	Ser	Val	Gln	Pro	Ser	Ser
				350					355					360
Ser	Ser	Ser	Ser	Pro	Thr	Thr	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser
				365					370					375
Ser	Ser	Gly	Ser	Ala	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro
				380					385					390
Ser	Ser	Ser	Ser	Ser	Val	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Arg
				395					400					405
Ser	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Ile	Pro	Thr	Thr	Thr	Ser	Val
				410					415					420
Gln	Pro	Ser	Ser	Ser	Ser	Ser	Val	Pro	Thr	Thr	Ser	Ala	Thr	Ser
				425					430					435
Val	Gln	Thr	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Ile	Pro	Ser	Thr	Thr
				440					445					450
Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Ala	Pro	Thr	Thr	Ser	Ala
				455					460					465
Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Pro	Pro	Ile	Ser	Ser
				470					475					480
Thr	Ile	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Ser	Pro	Thr	Thr
				485					490					495
Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Gly	Ser	Ala	Pro	Thr
				500					505					510
Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Pro	Pro
				515					520					525
Ile	Ser	Ser												